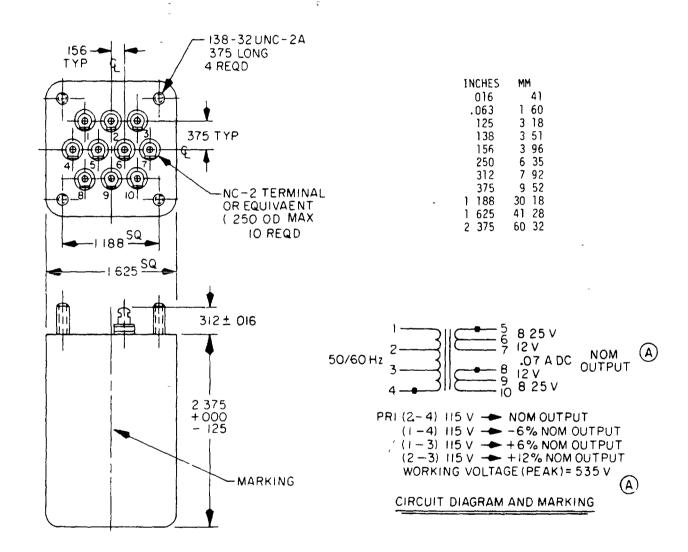
## MILITARY SPECIFICATION SHEET

## TRANSFORMER, POWER, STEP-DOWN, TF4S03AJ

This specification is approved for use by all Departments and Agencies of the Department of Defense

The complete requirements for procuring the transformer described herein shall consist of this document and the latest issue of Specification MIL-T-27.



## NOTES

- l Dimensions are in inches
- ? Metric equivalents are given for general information only and are based upon 1 00 inch = 25 4 mm
- 3 Tolerance on terminal position dimensions is · 016 inch
- 4 Unless otherwise specified, tolerance on overall case dimensions is + 000, 063 inch
- 5 Marking shall be on the side of the case

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FIGURE 1 Dimensions and configuration

A denotes changes

REQUIREMENTS (When numbers in parentheses, i e , (1-2) are used, they indicate the winding and the extreme terminals of the winding ) . .

Electrical ratings

TABLE I. Electrical ratings

Dash Primary		Secondary voltage			
no.	voltage	(5-6)	(6-7)	(8-9)	(9-10)
01 {	2-4) 115 V, 50/60 Hz 1-4) 115 V, 50/60 Hz 1-3) 115 V, 50/60 Hz 2-3) 115 V, 50/60 Hz	8 25 V 7.76 V 8 74 V 9 24 V	12.0 V 11.28 V 12 72 V 13 44 V	12 0 V 11 28 V 12 72 V 13 44 V	8.25 V 7 76 V 8 74 V 9.24 V

Primary current 120 mArms maximum

Secondary current 105 mArms maximum (5-7), (8-10) VA 48

Working voltage (peak) 535 volts

Design and construction

Dimensions and configuration See figure 1

Duty cycle Continuous

Case Metal encased

Terminals Solder terminal, NC-2 or equivalent

Terminal height 0.312 inch ±0 016

Weight 397 grams, maximum Altitude 10,000 feet maximum Operating temperature range: -55°C to +130°C

Terminal strength MIL-STD-202, method 211, test condition A, 5 0 pounds and test condition E, 8 0 ounce-inches

Vibration (high frequency) MIL-STD-202, method 204

Dielectric withstanding voltage At sea level 1,500 Yrms

Electrical characteristics

No load With 115 volts, 60 Hz across (2-4), current in (2-4) shall not exceed 120 mA and the power in (2-4) shall not exceed 1 2 watts

Voltage across

(5-7) 24 86 volts ±5 percent

(8-10)24 86 volts ±5 percent

Rated load With 115 voits, 60 Hz across (2-4), the voltage across (5-7) and (8-10) shall be 20 25 volts +5 percent @ 105 mArms

DC resistance (1-4) 200 ohms, maximum

(8-10) 27 ohms, maximum (5-7) 24 ohms, maximum

Polarity Additive, with 1 and 5, and 7 and 8 connected

40°C with 115 volts rms, 60 Hz across (2-4) at an ambient (A) Temperature rise temperature of 90°C

Marking location See figure 1

Part number M27/156-01

Custodians
Army - ER
Navy - EC
Air Force - 85

Review activities
Army - MI, SC
Navy - SH, OS
Air Force - 11, 17, 99
DLA - ES

User activities
Army - AR, ME
Navy - MC, AS
Air Force - 19

Preparing activity
Army - ER

Agent
DLA - ES

(Project 5950-0581-12)

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